PLANNING FUNDAMENTALS

PLANNING FUNDAMENTALS REFERENCES

- Workbook
- ER 1105-2-100 - Chapter 5
- Planning Manual - Chapters 5, 12, 13

PLANNING FUNDAMENTALS

LEARNING OBJECTIVES

- Step-by-step process
- Iteration
- Tools - Criteria
- Analyses
- Public involvement and interdisciplinary team

PRINCIPLES AND GUIDELINES REQUIREMENTS

- 1.3.2 Major Steps - steps, iteration
- 1.4.4 Federal-State Relationship in Planning
- 1.4.2 International Consultations
- 1.4.3 General Public Participation
- 1.4.4 Review and Consultation
- 1.4.5 Interdisciplinary Planning
- 1.4.7 Planning Area
- 1.4.12 Period of Analysis

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STEP-BY-STEP PROCESS

The planning process consists of the following major steps:

(1) Specification of the water and related land resources problems and opportunities (relevant to the planning setting) associated with the Federal objective and specific State and local concerns.

(2) Inventory, forecast and analysis of water and related land resource conditions within the planning area relevant to the identified problems and opportunities.

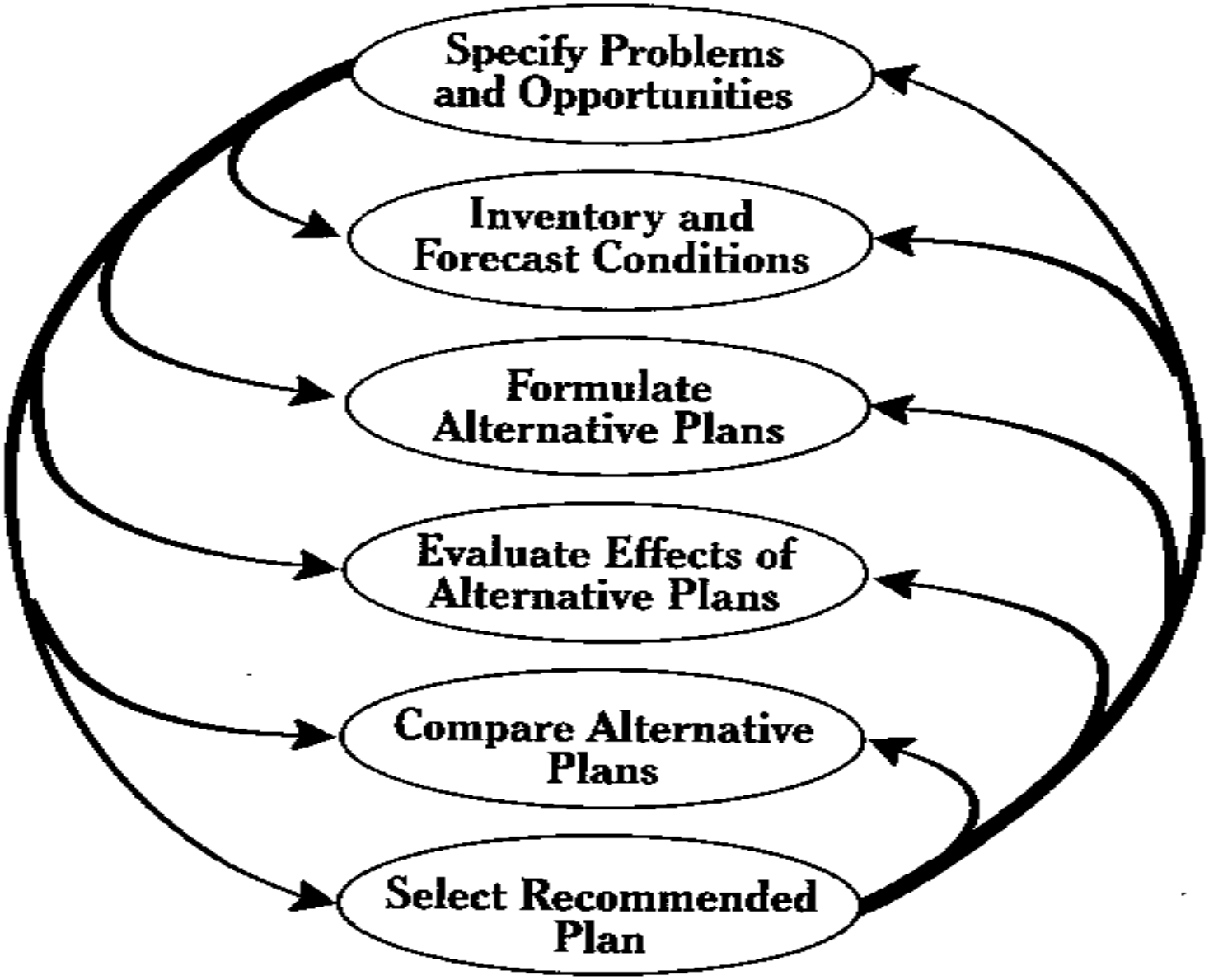
(3) Formulation of alternative plans.

(4) Evaluation of the effects of the alternative plans.

(5) Comparison of alternative plans.

(6) Selection of a recommended plan based upon the comparison of alternative plans."

PLANNING PROCESS



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ITERATION

- Repeat
- What? Steps.
- Why? Different emphasis.
- How many times? Depends.
- When do you stop? When there’s a recommendation.

ITERATION

- First …common sense iteration
- Institutional iterations:
  - Corps: Recon ➔ Feasibility ➔ etc.
  - NEPA: EA ➔ EIS ➔ ROD

ITERATION

- Start at any step.
- Conduct and repeat steps, but not necessarily always in order.
- Conduct each step at least once.
- Always end at the last step.

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TOOLS

- Criteria
- Goal
- Objective
- Constraint
- Problem
- Opportunity
- Planning area
- Period of analysis
- Without condition
- With condition
- Management measure
- Alternative plan
- Effect (impact)

CRITERIA

Criterion… n. pl. -teria… A standard rule or test on which a judgment or decision can be based. [Greek kriterion*, a means for judging, standard, from* krites*, a judge, umpire, from* krinein*, to separate, choose.]”*

CRITERIA

- What Decisions?
  - pass/fail, retain/delete, yes/no
  - priority, rank, order
- When?
  - early - “screening” decisions
  - late - “selection” decision
- Where do criteria come from?
  - given - “four criteria”, “scoping”
  - unique to each study
- Identify criteria BEFORE you make a decision.

WHAT DO WE "SCREEN" WITH CRITERIA?

- Stakeholders to be involved
- Problems and opportunities to be addressed
- Information to be collected
- Future without project assumptions to be used
- Management measures to be evaluated
- Effects to be considered
- Plan to be recommended - SELECTION

FORMULATION CRITERIA

Alternative plans…should be formulated in consideration of four criteria:

(1) Completeness.

(2) Effectiveness.

(3) Efficiency.

(4) Acceptability

Principles and Guidelines

PLANNING AREA

- Geographic space that includes:
  - Study authority area.
  - Project areas.
  - Affected areas.

ANALYSIS OF PUBLIC CONCERNS

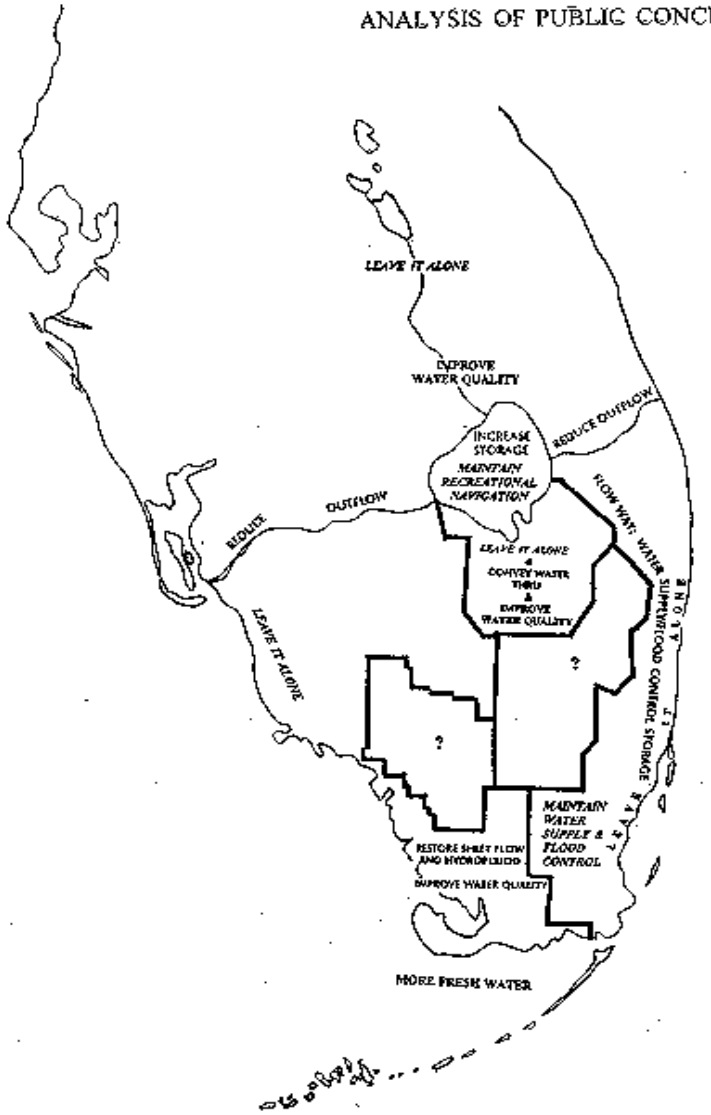
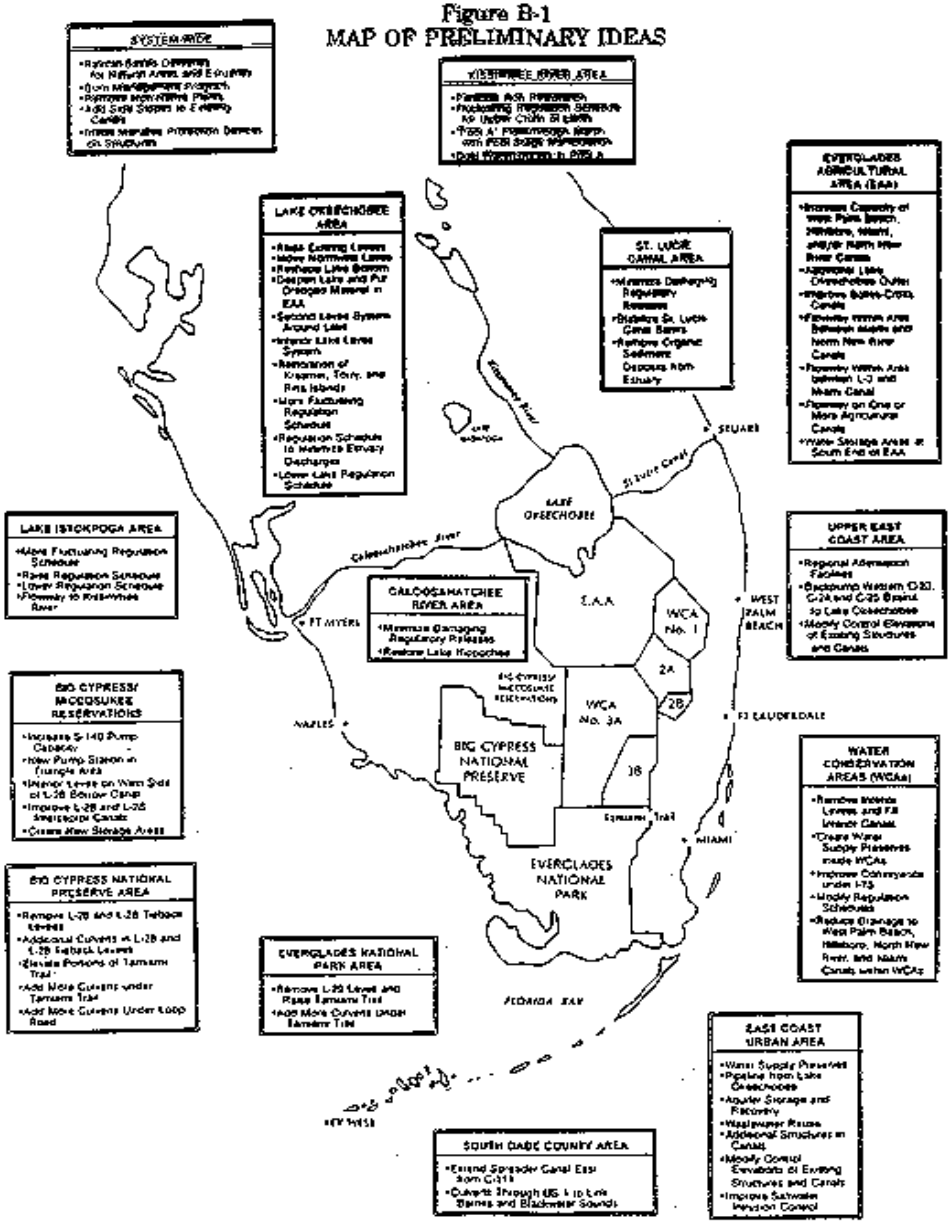


Figure B-1
MAP OF PRELIMINARY IDEAS


SYSTEM-WIDE
•Agrican Exotic Clearinghouse for Nilgrass Areas and Equipment
•Form Management Subgroups
•Reinforce Mechanical Plants
•Add Exotic Stoppers to Existing Canals
•Initiate Shoreline Protection Demos on Shorelines
KISSIMMEE RIVER AREA
•Protection Alt. Preservation
•Reopening Headwaters Sequence for Upper Chain of Lakes
•Flow & Phosphorus Mgmt. with Pilot Scale Implementation
•Joint Implementation in EAA &
LAKE OKEECHOBEE AREA
•Raise Existing Levees
•Move Northern Levee
•Reinforce Lake Shorelines
•Deepen Lake and Put Dredged Material in EAA
•Expand Littoral Zone Around Lake
•Intensify Littoral Zone System
•Restoration of Kissimmee, Taylor, and Paris Islands
•Wide Fluctuating Regulation Schedule
•Regulation Schedule to Maximize Estuary Discharges
•Lower Lake Regulation Schedule
ST. LUCIE CANAL AREA
•Maximize Dispersal Regulatory Releases
•Stabilize St. Lucie Canal Banks
•Remove Organic Sediment Deposits from Estuary
EVERGLADES AGRICULTURAL AREA (EAA)
•Increase Capacity of West Palm Beach, Hillsboro, Miami, and/or North New River Canals
•Aggressive Lake Okeechobee Outlet
•Improve Basin Cross Canals
•Diversion Within EAA Between Miami and North New River Canals
•Flowway Within Area between L-3 and Miami Canal
•Flowway on One or More Agriculture Canals
•Water Storage Areas at South End of EAA
LAKE ISTOKPOGA AREA
•More Fluctuating Regulation Schedule
•Raise Regulation Schedule
•Lower Regulation Schedule
•Flowway to Reservoirs River
BIG CYPRESS/ MODOSUKEE RESERVATIONS
•Increase S-140 Pump Capacity
•New Pump Station in Triangle Area
•Pump Water on Weir Spill at L-28 Borrow Canal
•Improve L-28 and L-26 Interceptor Canals
•Create New Storage Areas
BIG CYPRESS NATIONAL PRESERVE AREA
•Remove L-28 and L-28 Tieback Levees
•Additional Culverts at L-28 and L-28 Tieback Levees
•Elevate Portions of Tamiami Trail
•Add More Culverts under Tamiami Trail
•Add More Culverts Under Loop Road
EVERGLADES NATIONAL PARK AREA
•Remove L-29 Levee and Raise Tamiami Trail
•Add More Culverts Under Tamiami Trail
SOUTH DADE COUNTY AREA
•Extend Spreader Canal East from C-111
•Culverts Through US 1 to Card Sound and Blackwater Sounds
EAST COAST URBAN AREA
•Water Supply Reserves
•Pipeline from Lake Okeechobee
•Aquifer Storage and Recovery
•Wastewater Reuse
•Additional Structures in Canals
•Modify Control Elevations of Existing Structures and Canals
•Improve Saltwater Intrusion Control
WATER CONSERVATION AREAS (WCAs)
•Remove Interior Levees and Fill Interior Canals
•Create Water Supply Reserves inside WCAs
•Improve Conveyance under I-75
•Modify Regulation Schedules
•Reduce Drainage to West Palm Beach, Hillsboro, North New River, and Miami Canals within WCAs
UPPER EAST COAST AREA
•Regional Aquaculture Facilities
•Backpump Western C-23, C-24 and C-25 Basins to Lake Okeechobee
•Modify Control Elevations of Existing Structures and Canals
Kissimmee River
Lake Okeechobee
St. Lucie Canal
Caloosahatchee River
FT MYERS
NAPLES
STUART
WEST PALM BEACH
FT LAUDERDALE
MIAMI
KEY WEST
LAKE OKEECHOBEE
E.A.A.
WCA No. 1
2A
2B
WCA No. 3A
3B
BIG CYPRESS/ MODOSUKEE RESERVATIONS
BIG CYPRESS NATIONAL PRESERVE
Tamiami Trail
EVERGLADES NATIONAL PARK
FLORIDA BAY

PERIOD OF ANALYSIS

- Principles and Guidelines say:
  - Same for all plans
  - Implementation plus lesser of:
    - Time when plans have significant effects, or
    - 100 years
  - Environmental factors may be longer
- Planning Guidance Letter 96-01 says lesser of:
  - Time over which any plan has significant effects, or
  - 50 years
  - Except 100 years for multipurpose projects.
- “Planning horizon” - use common sense.

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- Step-by-step process
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ANALYSES

- With and Without Analysis
- Benefit-Cost Analysis
- Cost Effectiveness Analysis
- Incremental Cost Analysis
- Optimization Analysis
- Sensitivity Analysis
- Risk Analysis

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PUBLIC INVOLVEMENT WHO'S THE PUBLIC?

- Sponsor
- Partner
- Stakeholder
- "The Public"
- Internal Public

INTERDISCIPLINARY TEAM
WHO'S ON THE TEAM?

- Interdisciplinary - Multidisciplinary
- Discipline - "Stovepipe"
- Planner - Project Manager
- Interdisciplinary - Multiagency

EDUCATION

PUBLIC INVOLVEMENT AND INTERDISCIPLINARY TEAM SIMILARITIES

- Why do them?
- “Facts” vs. Informed Judgments vs. Personal Values
- Position vs. Interest
- Techniques
- People

PUBLIC INVOLVEMENT AND INTERDISCIPLINARY TEAM TECHNIQUES

- Flip Chart Technology
- Individual Assessment Instruments
- Traditional Public and Team Meetings
- Brainstorming
- Other Group Techniques
- Alternative Dispute Resolution
- Questionnaires
- Advisory Committees
- Partnering

PUBLIC INVOLVEMENT AND INTERDISCIPLINARY TEAM SIMILARITIES

- Why do them?
- “Facts” vs. Informed Judgments vs. Personal Values
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PUBLIC INVOLVEMENT AND INTERDISCIPLINARY TEAM

THREE GOOD QUESTIONS:

- What are the problems and opportunities?
- What are the solutions?
- What are the solutions' pros and cons?

PLANNING FUNDAMENTALS LESSON REVIEW

- Step-by-step Process
- Iteration
- Tools - Criteria
- Analyses
- Public Involvement and Interdisciplinary Team
- QUESTIONS?